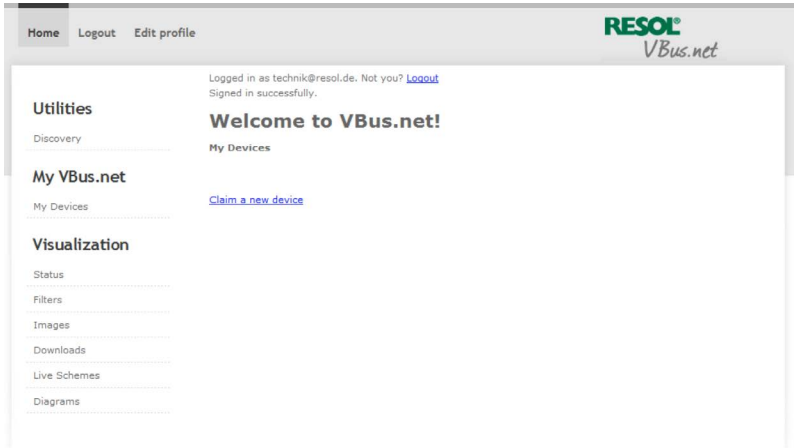
VBus.net

RESOL®

Visualisation

Data download

Diagram creation



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Manual

www.resol.com

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Subject to technical change. Errors excepted.

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1 VBus.net

VBus.net is a service portal that offers the possibility to access solar thermal system data, without any configuration effort, from all over the world. Thus, no DSL router configuration is required.

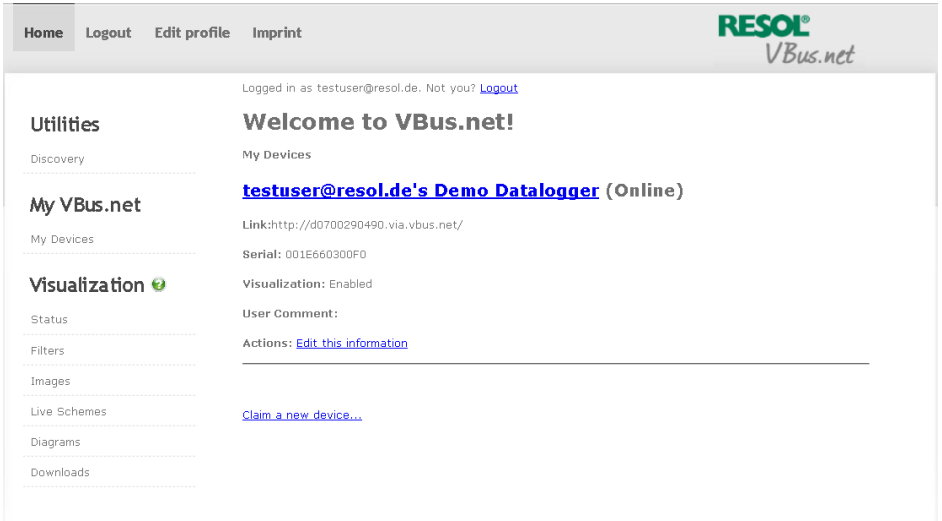
To use the VBus.net service, the system must be equipped with a RESOL DL2 or RESOL DL3 Datalogger. After signing on at http://www.vbus.net, the Datalogger can be registered with the system.

VBus.net enables users to access their solar thermal system data from all over the world, just by using a regular Web browser.

No additional software or app is required, only a registered account for the VBus.net service, a Web browser and an Internet connection. Of course, many mobile devices are supported as well.

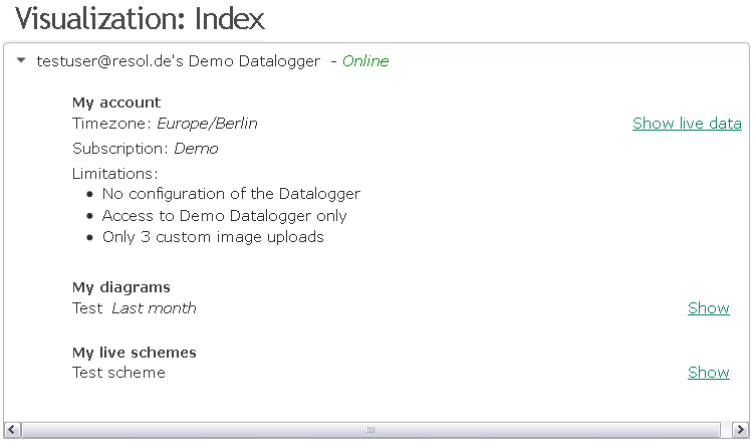
2 Menu functions

After logging in, different menu items are available on VBus.net. The menu item **Visualization** offers access to the visualisation and download functions of VBus.net.



3 Status

In the **Status** menu, information about the user account is indicated.



4 Filters

Filters are used for reducing and customising the number of data points.

By reducing the number of data points, evaluation and visualisation can be focussed on certain measuring and balance values. This helps to keep diagrams concise and to accelerate downloads.

In order to create a filter, proceed as follows:

➔ Select the desired system.

➔ Enter a name for the filter.

➔ Click on the device from which measuring values are to be added (see arrow).

A selection menu with all data points available opens. The data points can be selected and unselected individually.

The standard names for the data points can be changed individually, and a colour can be selected for the line representing the data point in a diagram.

In order to re-name the data points, proceed as follows:

➔ Enter the desired name in the corresponding fields of the centre column.

In order to select a colour for the diagram line, proceed as follows:

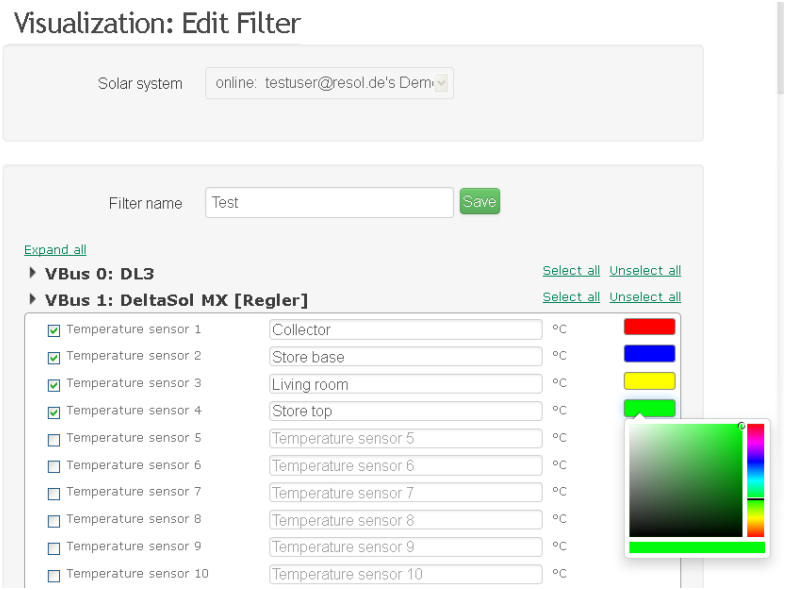
➔ Click on the coloured box to the right of the desired value.

A colour selection window opens.

➔ Select the desired colour.

In order to save all adjustment changes, proceed as follows:

➔ Click on the **Save** button.



5 Scheme images

In order to create a live data view, a scheme image of the system can be used.

A selection of standard images is available on VBus.net. If no fitting image of the desired system is available, a customised image can be uploaded and used.

Customised images must be .JPG or .PNG format.

In order to use a standard image, proceed as follows:

➔ Select the desired image.
➔ Enter a name for the image.
➔ Click on the desired thumbnail.
➔ Click on the **Save** button.

To facilitate the selection, the number of images can be filtered. To do so, proceed as follows:

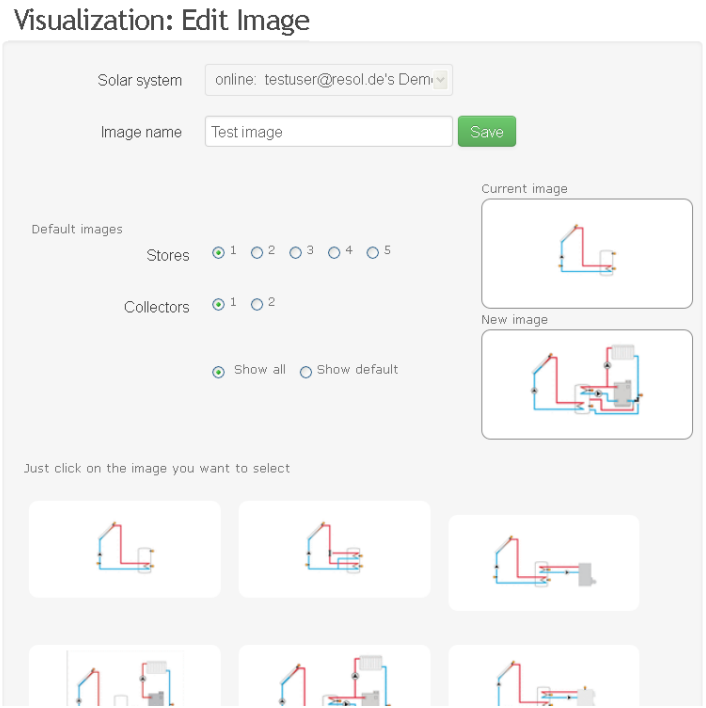
➔ Select the desired number of collectors and stores (see Stores and Collectors).

Only the matching images will be displayed.

In order to use a customised image, proceed as follows:

➔ Under **Upload new image**, click on **Select file**.
➔ Select the desired .JPG or .PNG file.
➔ Click on the **Upload** button.

The file will then be transferred to the server.



6 Live data view

The current measuring values of the solar system can also be displayed in a scheme image of the system.

By using the **Public** function, the live data view can also be displayed externally, e. g. on a website.

In order to create a live data view, a filter (see page 4) and a scheme image (see page 5) have to be selected or created first! A scheme image is required as a background for the live data view.

In order to edit a live data view, proceed as follows:

➔ Select the desired system.

➔ Enter a name for the live data view.

➔ Select the desired image.

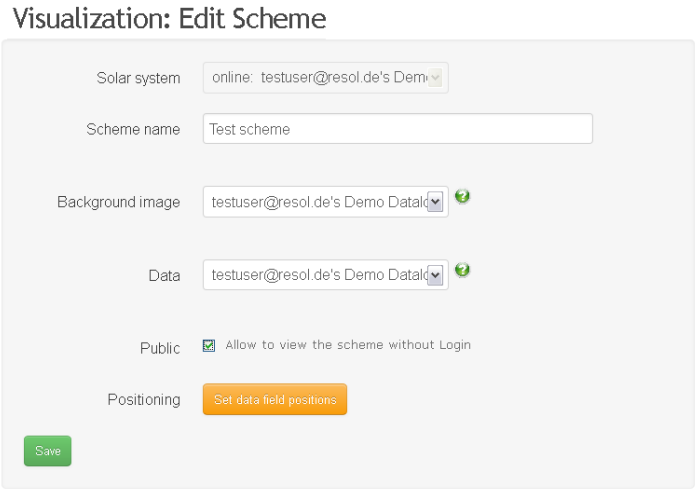
➔ Select a filter for the data stored.

➔ If publication is to be enabled for the live data view, tick the **Public** checkbox.

The corresponding URL will be displayed on the overview page. Thus, a live data view can e. g. be integrated into a website. To see a live data view integrated into a website, no login on VBus.net is required.

➔ Click on the **Save** button.

Now the data points can be positioned on the scheme image (see page 7).



7 Positioning the data points

In order to position the data points on the scheme image, proceed as follows:

➔ In the **Edit Scheme** menu (see page 4), click on the **Set data field positions** button.

The positioning menu opens.

On the left-hand side of the screen, all data points chosen for the filter selected are listed. For each data point, the positionable elements are displayed: The corresponding device, the measuring or balance value as well as its name.

In order to position elements, proceed as follows:

➔ Select the desired element by clicking and holding the mouse button.

➔ Drag the element to the desired position.

➔ Release the mouse button.

As soon as the mouse button is released, the position of the element will be stored automatically.

If the mouse button is released outside the valid image area (the frame around the scheme image), the element will be set back to its initial position automatically.

In order to remove elements from the scheme image, proceed as follows:

➔ Select the desired element by clicking and holding the mouse button.

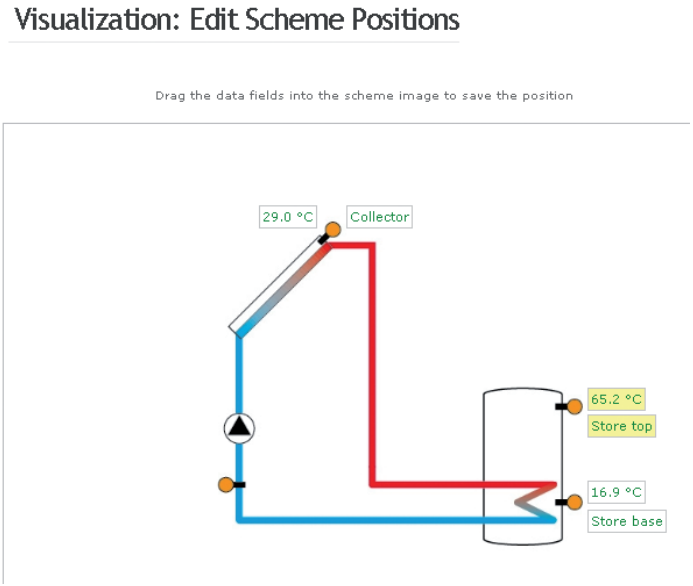
➔ Drag the element to a position outside the scheme image.

➔ Release the mouse button.

As soon as the mouse button is released, the position of the element will be stored automatically.

When the cursor is moved over a data point, all corresponding elements are highlighted in yellow. This way, the data point can be clearly matched.

After positioning, the live data view can be opened in a separate window.



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8 Diagram creation

To chart the data progress over a certain time frame, customised diagrams of measuring and balance values can be created. For a one-time diagram view, the Quick-Diagram function is available. If a specific diagram is to be used recurrently, the specifications can be stored for that purpose.
By using the **Public** function, diagrams can also be displayed externally, e. g. on a website.
In order to create a diagram, a filter (see page 8) must be created first!

8.1 Quick diagram

In order to create a quick diagram, proceed as follows:

- ➔ Select the desired system.
- ➔ Select the desired time frame.
- ➔ Select the corresponding filter under Stored values.
- ➔ Click on the Show button.

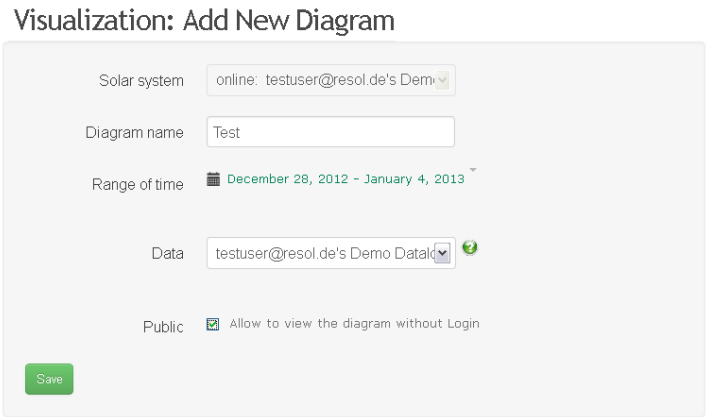
The data will then be processed automatically. After that, the diagram is displayed.

8.2 Stored diagrams

In order to store a diagram, proceed as follows:

- ➔ Select the desired system.
- ➔ Select the desired time frame.
- ➔ Select the corresponding filter under Stored values.
- ➔ If publication is to be enabled for the diagram, tick the Public checkbox.

The corresponding URL will be displayed on the overview page. Thus, a diagram can e. g. be integrated into a website. To see a diagram integrated into a website, no login on VBus.net is required.



9 Diagram functions

For stored diagrams, the following diagram functions can be used.

9.1 Zoom

The **Zoom** function can be used for viewing a certain area of the diagram more closely.

➔ In order to zoom in on a part of the diagram, mark the desired time frame with the mouse.

The marked area is then enlarged automatically.

➔ In order to get back to the previous diagram, click on **Reset zoom**.

9.2 Print

The Print function can be used for printing the diagram.

➔ In order to print the diagram, click on the printer icon (upper right-hand side).

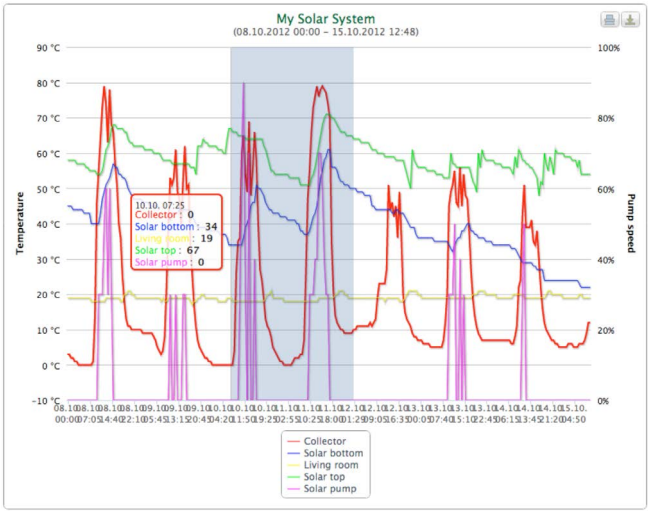
9.3 Export

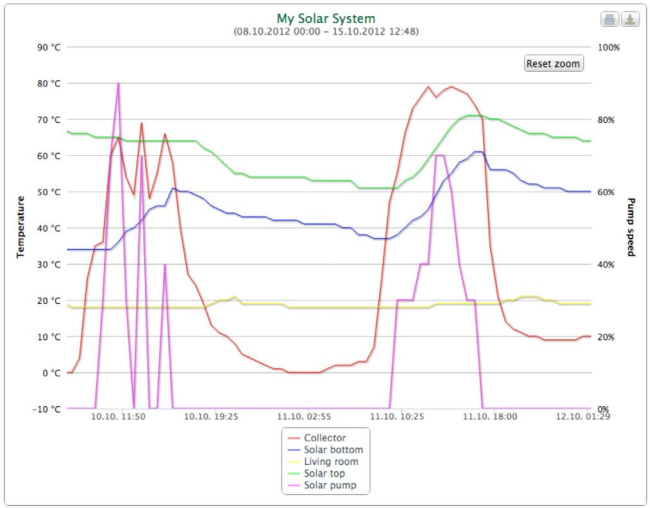
The **Export** function can be used for storing the diagram as a .PNG or .JPG image, as a .PDF file or as an .SVG graphic.

➔ In order to export the diagram, click on the export icon (upper right-hand side).

➔ Select the desired file format.

The download will start automatically.





10 Download

The data logged for a defined time frame can be downloaded in different file formats for evaluation and processing. For a one-time download, the Quick-download function is available. If a specific download is to be used recurrently, the specifications can be stored for that purpose.

10.1 Quick download

For a Quick download, proceed as follows:

➔ Select a system, a file format and the desired time frame.

➔ Under **Stored data**, select whether all data logged or a filter created previously (see page 4) are to be downloaded.

➔ Click on the **Download** button.

The download starts.

10.2 Stored downloads

In order to store a specific download for recurrent use, proceed as follows:

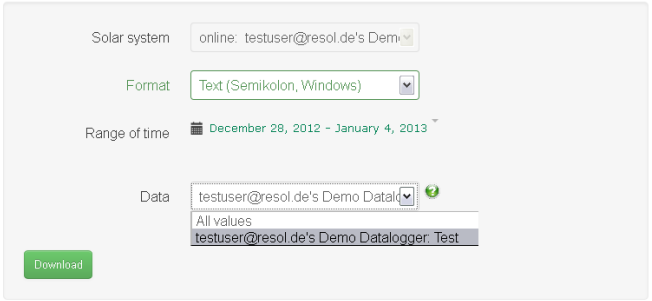
➔ Click on **Add new download**.

➔ Select a system, a file format and the desired time frame.

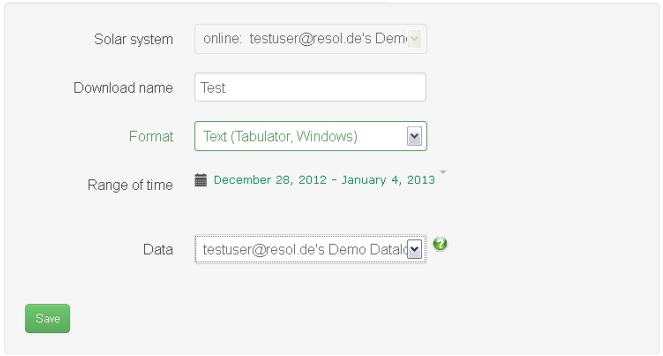
➔ Click on the **Save** button.

Stored downloads are available in the **Downloads** section. There, previously made adjustments can be changed or downloads can be deleted.

Quick download



Visualization: Add New Download



Notes

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